Maya Martirossyan

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Education

2018 – 2024 *(expected)*	Ph.D. in Materials Science & Engineering (MSE), Cornell University Advisor: Julia Dshemuchadse	*Ithaca, NY*
2018 – 2021	M.S. in Materials Science & Engineering (MSE), Cornell University	*Ithaca, NY*
2013 – 2017	B.S. in Physics, Harvey Mudd College	*Claremont, CA*

Fellowships and Awards

2019 – 2024	National Science Foundation Graduate Research Fellowship
2021 – 2023	Dolores Zohrab Liebmann Fellowship
2023	Exemplary Service Award, Cornell Graduate Diversity & Inclusion Council
2023	Travel Grant, Cornell MSE
2021, 2023	Braslau Family Travel Grant, APS March Meeting
2022	DSOFT Travel Award, APS March Meeting
2019 – 2021	US Graduate Scholarship, Armenian General Benevolent Union
2020	Finalist for Paul and Daisy Soros Fellowship for New Americans
2019	Don & Lauren Morel Graduate Fellowship, Cornell MSE
2019	Rick & Betty Tsai Graduate Fellowship, Cornell MSE
2019	Ethel Jafarian Duffett Scholarship, Armenian International Women's Association

Publications

M. M. Martirossyan, M. Spellings, H. Pan, J. Dshemuchadse, "Local structural features elucidate the crystallization of complex structures," *under review.*

M. Spellings, **M. M. Martirossyan**, J. Dshemuchadse, "Self-supervised learning for ordered three-dimensional structures," *manuscript in preparation.*

R. N. Scott, C. E. Frank, **M. M. Martirossyan**, P. J. Milner, J. Dshemuchadse, "Two-dimensional metal–organic framework self-assembly and defect engineering studied *via* coarse-grained simulations," *in revision.*

C. E. Cash, J. Wang, **M. M. Martirossyan**, B. K. Ludlow, A. E. Baptista, N. M. Brown, E. J. Weissler, J. Abacousnac, S. J. Gerbode, "Local melting attracts grain boundaries in colloidal polycrystals," *Physical Review Letters* 120, 018002 (2018). [doi:10.1103/PhysRevLett.120.018002]
Note: Editor's Suggestion and featured in APS *Physics.*

G. Guélou, **M. Martirossyan**, K. Ogata, I. Ohkubo, Y. Kakefuda, N. Kawamoto, Y. Kitagawa, J. Ueda, S. Tanabe, K. Maeda, K. Nakamura, T. Aizawa, T. Mori, "Rapid deposition and thermoelectric properties of ytterbium boride thin films using hybrid physical chemical vapor deposition," *Materialia* 1, 244-248 (2018). [doi:10.1016/j.mtla.2018.06.003]

E. L. Warren, E. A. Makoutz, T. Saenz, **M. Martirossyan**, A. Matheson, A. Neumann, A. G. Norman, A. C. Tamboli, J. D. Zimmerman, W. E. McMahon, "Enabling low-cost III-V/Si integration through nucleation of GaP on v-grooved Si substrates," *paper presented at* IEEE World Conference on Photovoltaic Energy Conversion (2018). [doi:10.1109/PVSC.2018.8547324]

Contributed talks

2023	IAIFI Summer School, August 7–11.	*Virtual*
2023	Crystal Growth & Assembly Gordon Research Conference, June 18–23.	*Manchester, NH*
2023	Crystal Growth & Assembly Gordon Research Seminar, June 17–18.	*Manchester, NH*
2023	APS March Meeting, March 5–10, Talk Q16.00008.	*Las Vegas, NV*
2022	MRS Fall Meeting, November 27–December 2, Talk SB05.03.04.	*Boston, MA*
	APS March Meeting, March 14–18, Talk K25.00003.	*Chicago, IL*
2021	AIChE Annual Meeting, November 7–11, Talk 438d.	*Boston, MA*
	APS March Meeting, March 15–19, Talk V07.00006.	*Virtual*
2020	Cornell Nanoscale Facility Annual Meeting, September 10, Invited.	*Virtual*
2017	APS March Meeting, March 13–17, Talk S17.00002.	*New Orleans, LA*

Teaching

2023	**Co-instructor** for Cornell Prison Education Program (CPEP) Workshop in Programming	*Moravia, NY*
2022	**Co-instructor** for Cornell Prison Education Program (CPEP) MATH 112: Contemporary Mathematics	*Auburn, NY*
2022	**Instructor** for Cornell Prison Education Program (CPEP) MATH 112: Contemporary Mathematics	*Moravia, NY*
2022	**Contributor**, Cornell Center for Materials Research Lending Library	*Ithaca, NY*
2021	**Workshop leader**, TUMO Center for Creative Technologies "Simulating simple physics for complex problems"	*Yerevan, Armenia*
2021	**Guest lecturer**, Cornell University MSE 3040/5840: Kinetics, Diffusion, and Phase Transformations, MSE 5730: Probability, Statistics, and Data Analysis for the Physical Sciences	*Ithaca, NY*
2018	**Teaching assistant**, American University of Armenia ENGS 110: Introduction to Programming, CS 103: Real Analysis	*Yerevan, Armenia*

Leadership & Outreach

2023	**Volunteer**, Expanding Your Horizons at Cornell	*Ithaca, NY*
2023	**Volunteer**, APS Conference for Undergraduate Women in Physics	*Ithaca, NY*
2020–2022	**Event organizer**, REACT (Research Education and Activities for Community Teachers)	*Virtual/Ithaca, NY*
2020–	**Member**, MSE JEDI (Justice, Equity, Diversity, and Inclusion) Initiative	*Ithaca, NY*
2020	**Presenter**, NYS 4-H Career Explorations at Cornell	*Virtual*
2019–	**Ambassador**, Cornell Nanoscale Facility Education and Outreach	*Ithaca, NY*
2018–	**Volunteer**, Cornell Center for Materials Research (CCMR) Educational Programs	*Ithaca, NY*